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Feb 15, 2000

DERWENT-ACC-NO: 2000-218360
DERWENT-WEEK: 200066
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TITLE: Copper foil for lithium ion secondary battery has varying heights set from base line orbital narrow band photoelectron spectrum to spectrum peak

PATENT-ASSIGNEE:

ASSIGNEE

KOBEL STEEL LTD

CODE

KOBM

PRIORITY-DATA: 1998JP-0212558 (July 28, 1998)

PATENT-FAMILY:

| PUB-NO | PUB-DATE | LANGUAGE | PAGES | MAIN-IPC |
|-----------------|-------------------|----------|-------|------------|
| JP 2000045059.A | February 15, 2000 | | 009 | C23C008/12 |

APPLICATION-DATA:

| PUB-NO | APPL-DATE | APPL-NO | DESCRIPTOR |
|---------------|---------------|----------------|------------|
| JP2000045059A | July 28, 1998 | 1998JP-0212558 | |

INT-CL (IPC): C22 C 9/00; C22 F 1/00; C22 F 1/08; C23 C 8/12; C23 C 8/16; H01 M 4/02; H01 M 4/64

ABSTRACTED-PUB-NO: JP2000045059A

BASIC-ABSTRACT:

NOVELTY - The copper foil is rolled so that it has composite skin layer of copper hydroxide and cuprous oxide on foil surface. The roughness height of the copper foil in direction right angle to the rolling direction is set to 0.7 μ m or more. The heights between base line of orbital narrow band photoelectron spectrum of cuprous oxide and spectrum peak is set to different values so as to satisfy specific relation.

USE - Copper foil is used for flexible printed circuit board and for electrodes of lithium ion secondary battery.

ADVANTAGE - Has excellent adhesive capacity of coating materials like carbon on the surface of foil due to the rough skin layer of copper oxide and copper hydroxide.

CHOSEN-DRAWING: Dwg.1/3

TITLE-TERMS: COPPER FOIL LITHIUM ION SECONDARY BATTERY VARY HEIGHT SET BASE LINE ORBIT NARROW BAND PHOTOELECTRON SPECTRUM SPECTRUM PEAK

DERWENT-CLASS: A85 L03 M13 V04 X16

CPI-CODES: A12-E06A; A12-E07A; L03-E01B8; L03-H04E3; M13-H;

EPI-CODES: V04-R02; V04-R05D; X16-B01F1; X16-E02;

UNLINKED-DERWENT-REGISTRY-NUMBERS: 1548U; 1549U

ENHANCED-POLYMER-INDEXING:

Polymer Index [1.1] 018 ; P0000 Polymer Index [1.2] 018 ; ND01 ; K9416 ; K9552 K9483
; K9676*R ; Q9999 Q7454 Q7330 ; Q9999 Q7341 Q7330 ; Q9999 Q7409 Q7330

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C2000-067040

Non-CPI Secondary Accession Numbers: N2000-164551